

FIG.1B

FIG.1A

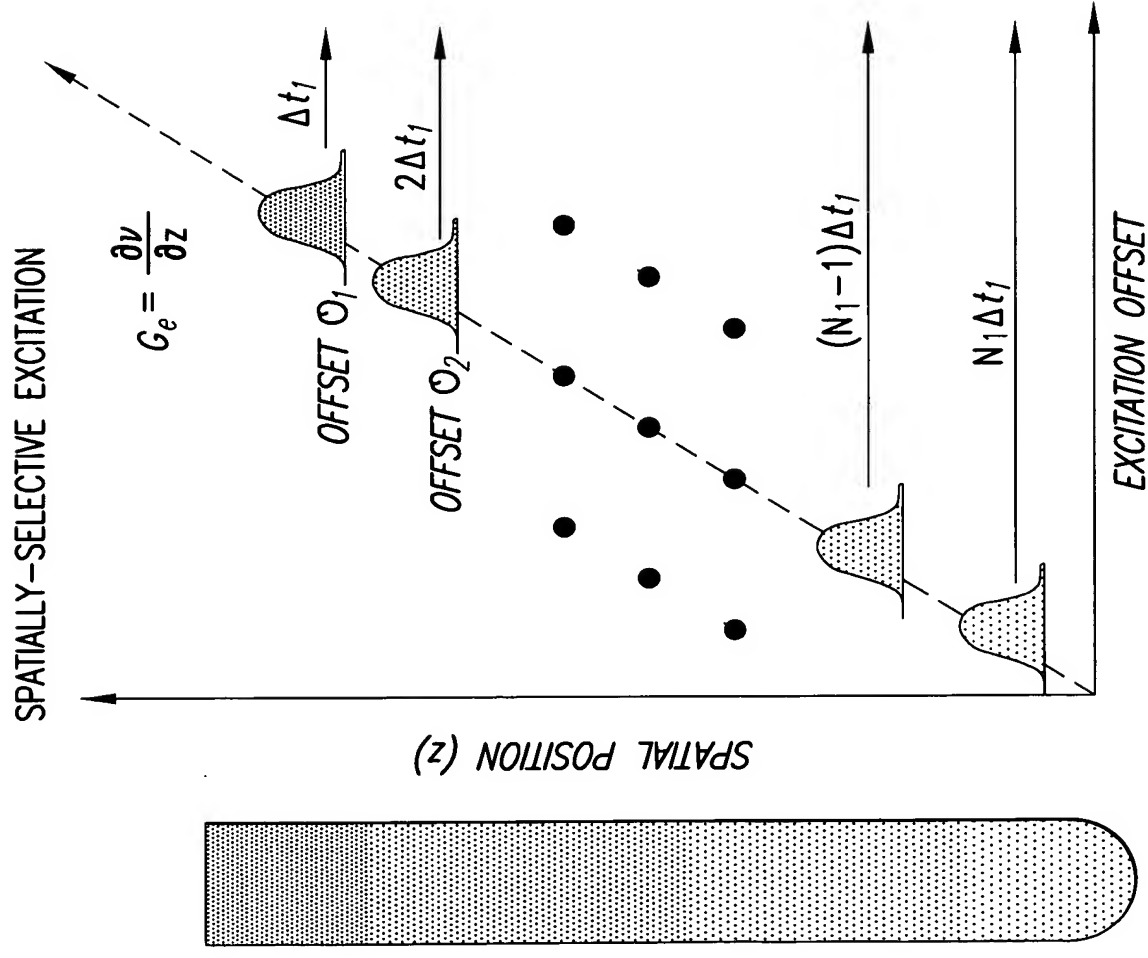


FIG.2A

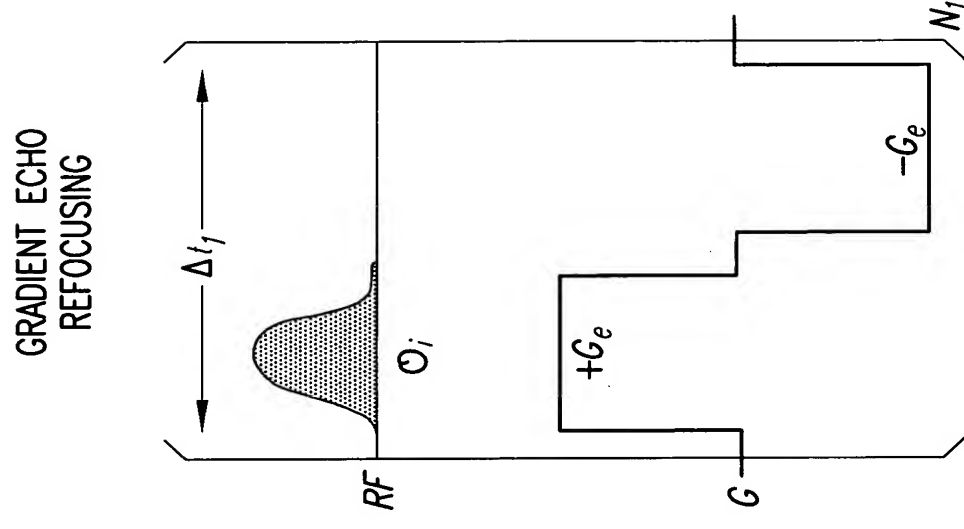
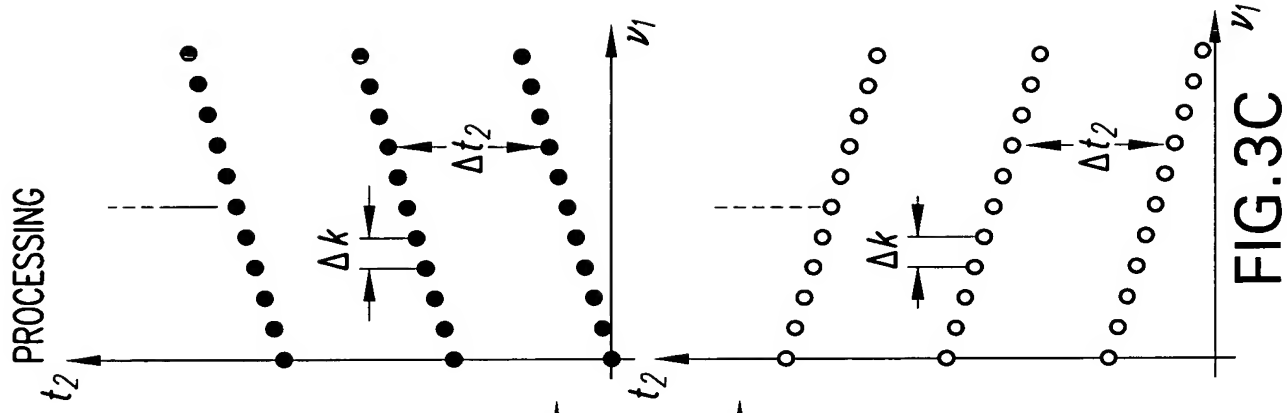
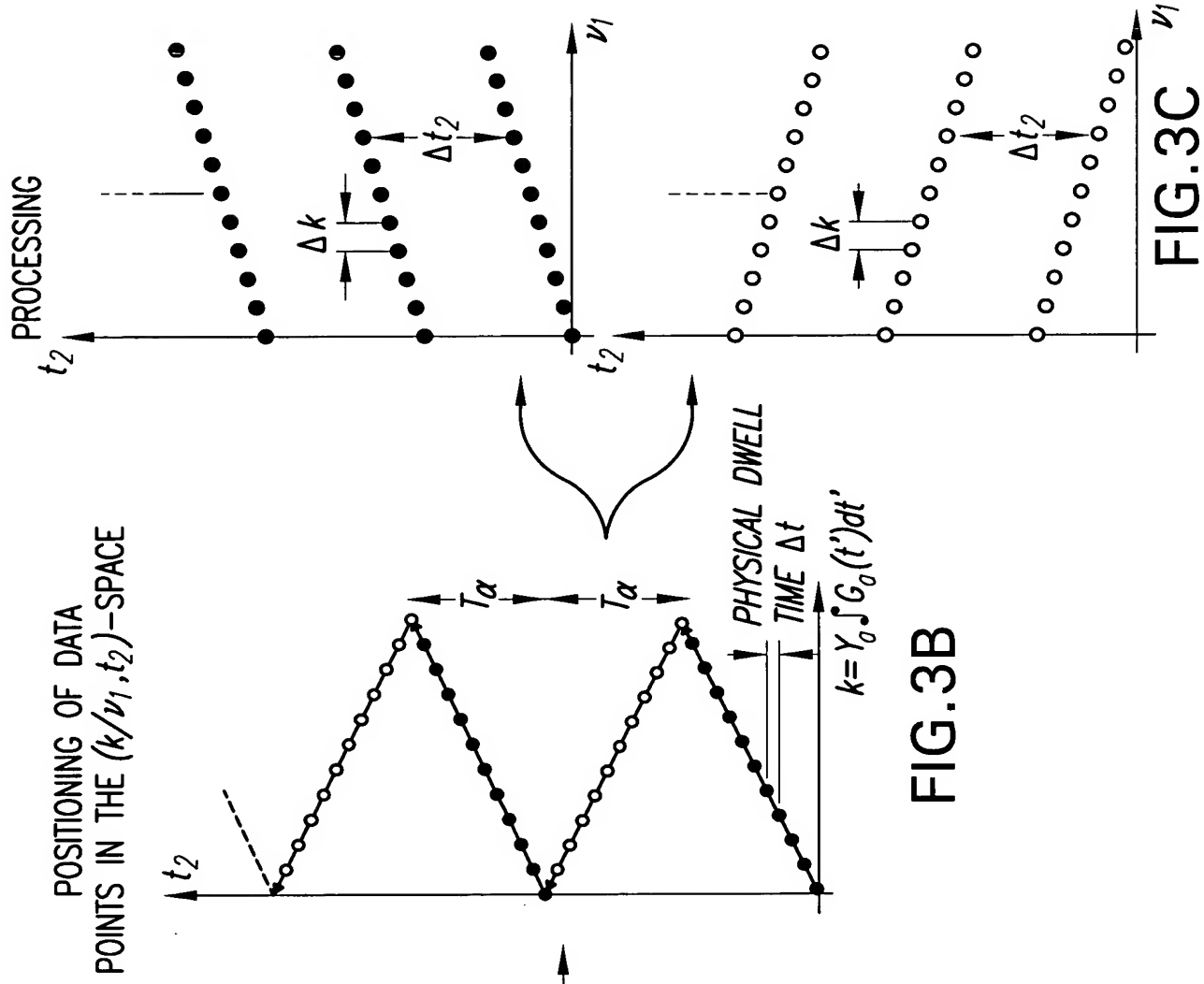
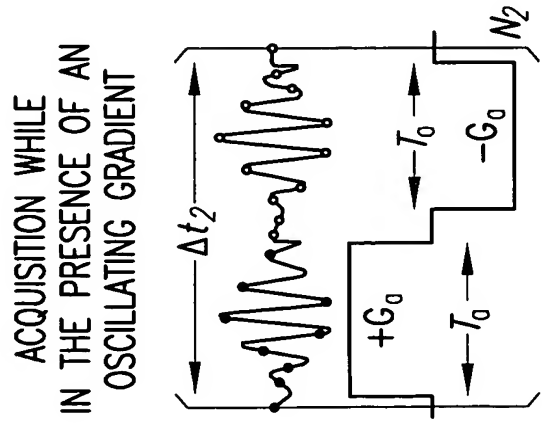


FIG.2B



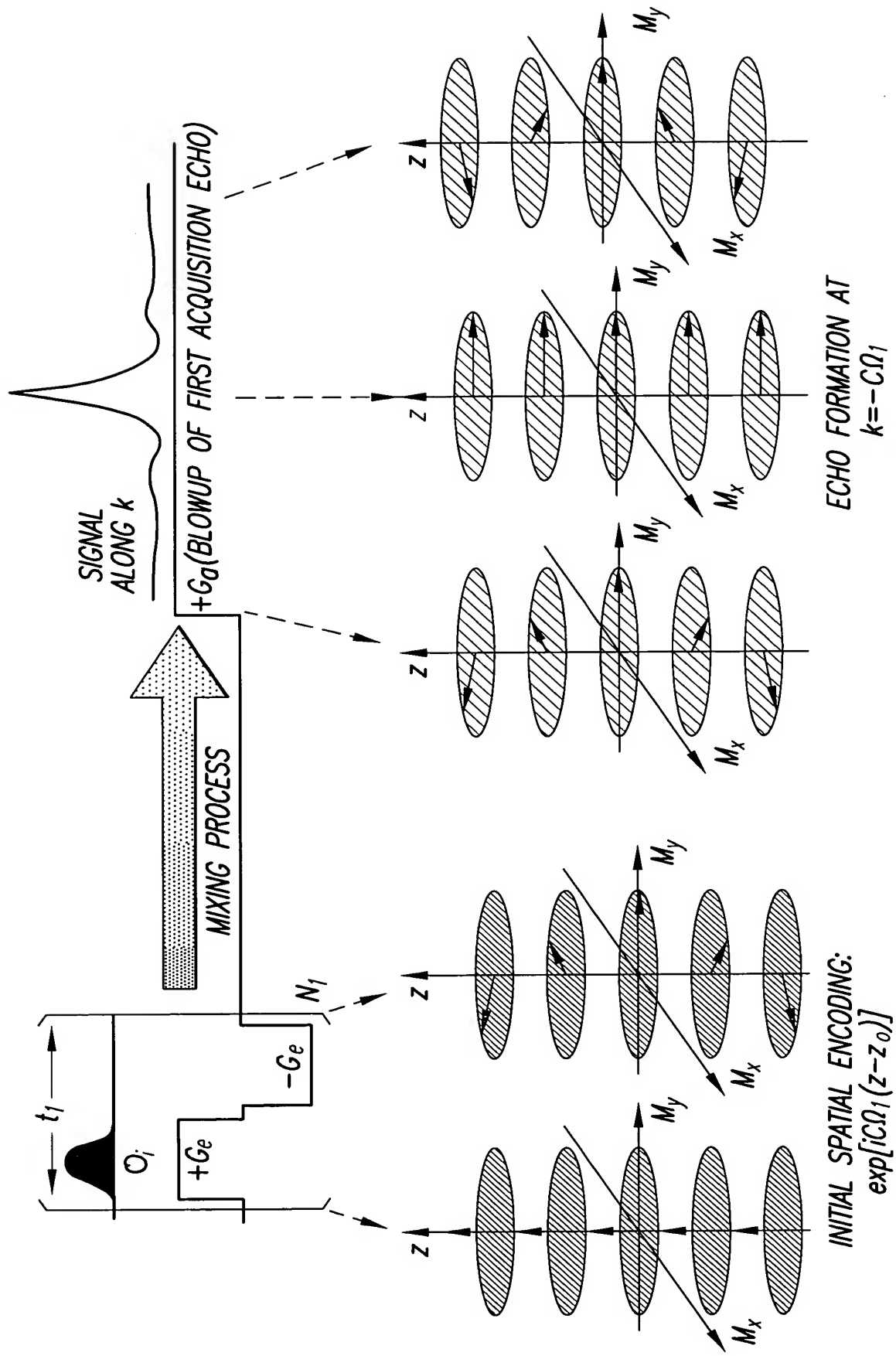


FIG.4

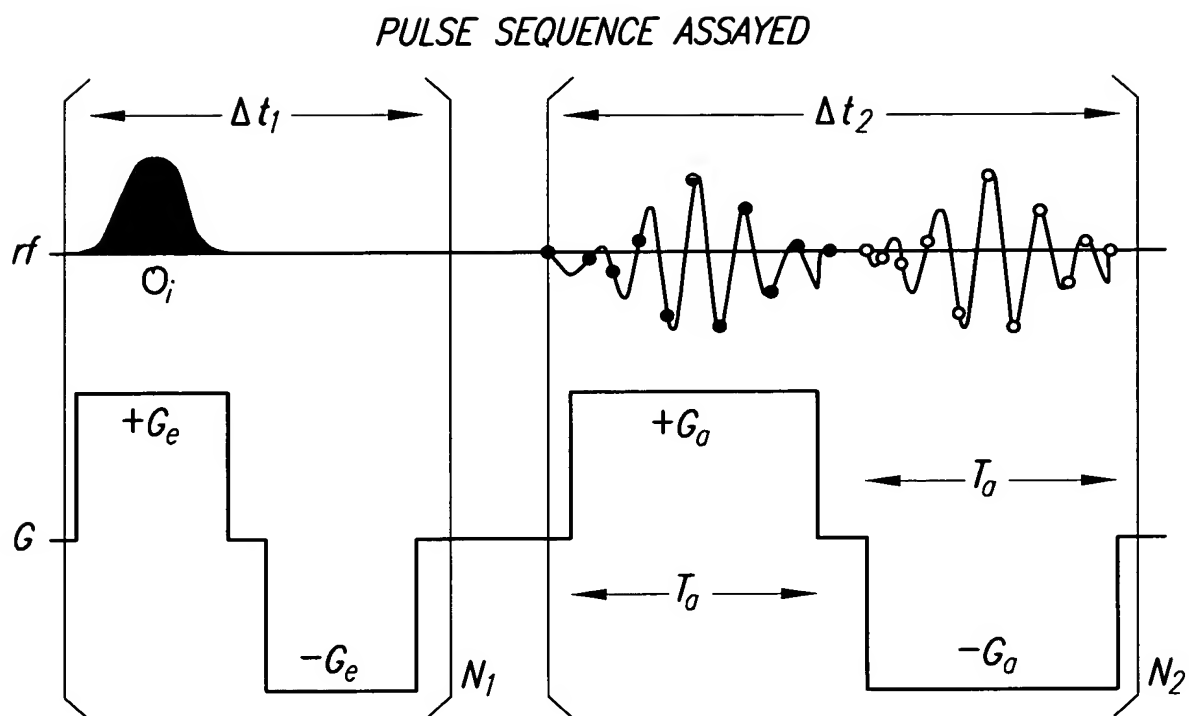


FIG.5A

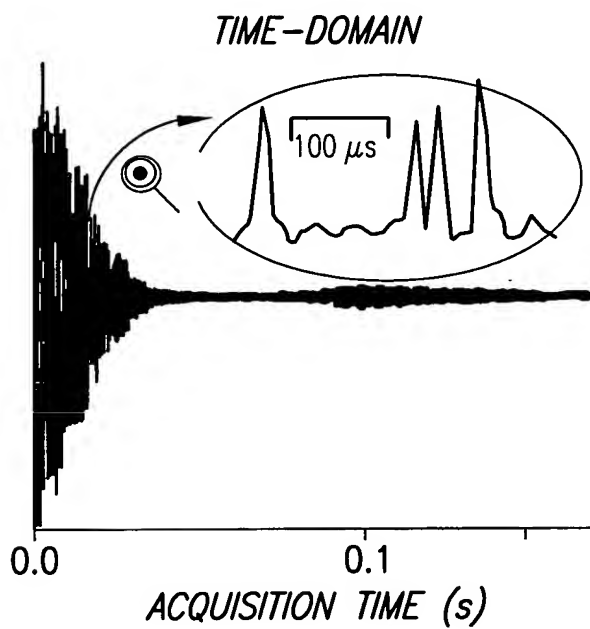


FIG.5B

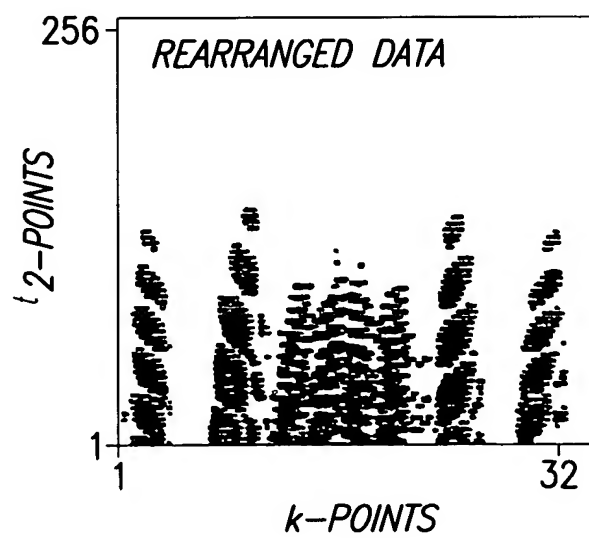


FIG.5C

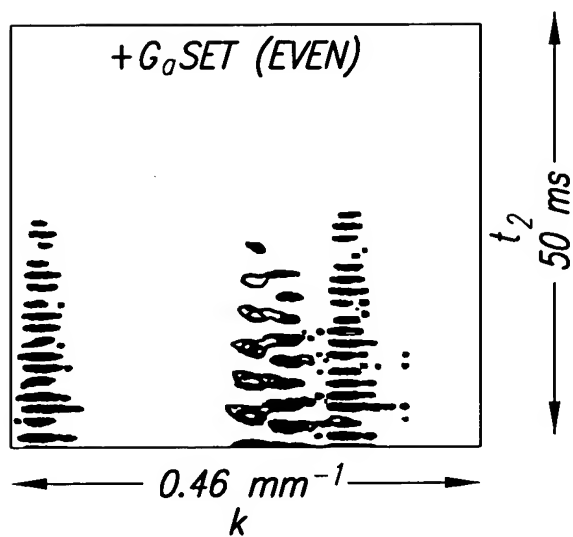


FIG.5D

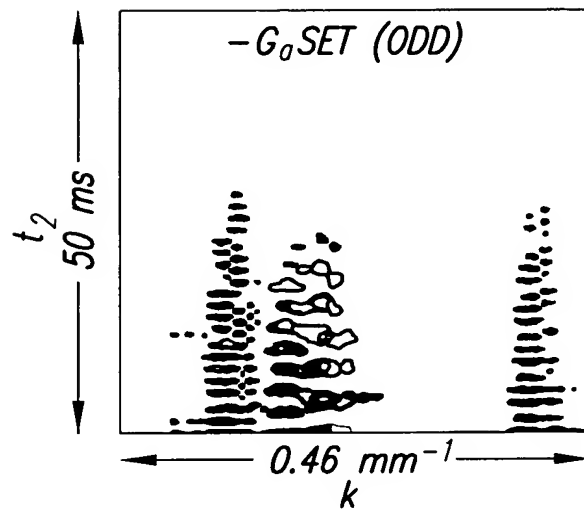


FIG.5E

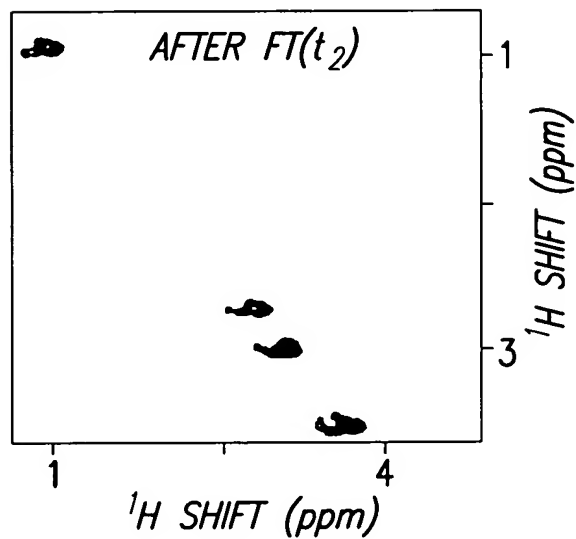


FIG.5F

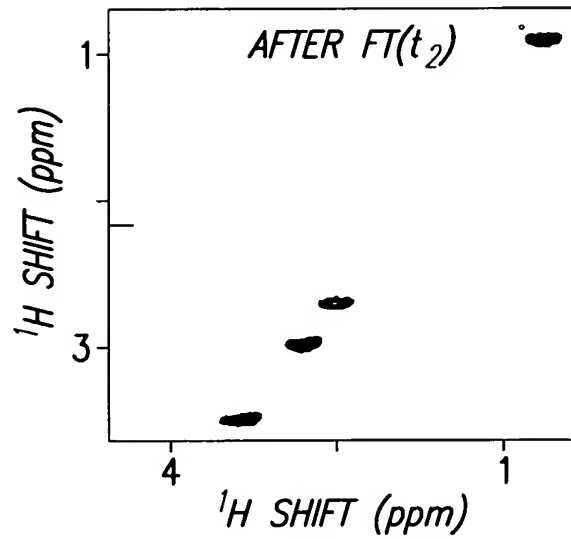


FIG.5G

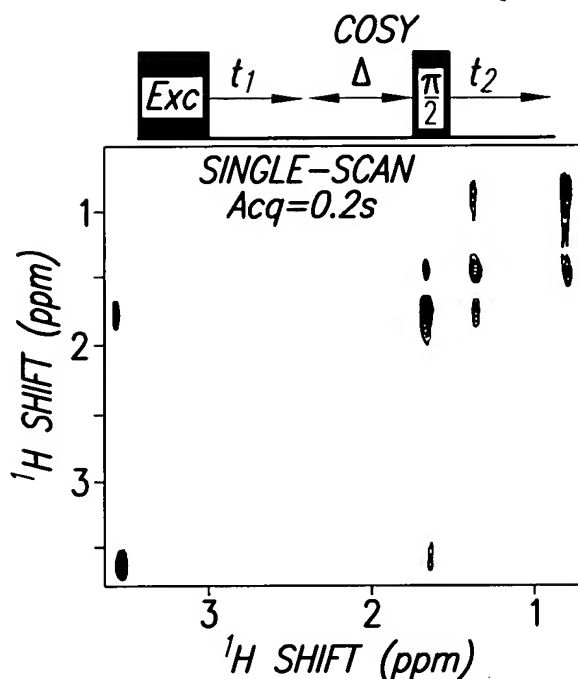
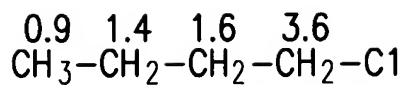


FIG.6A

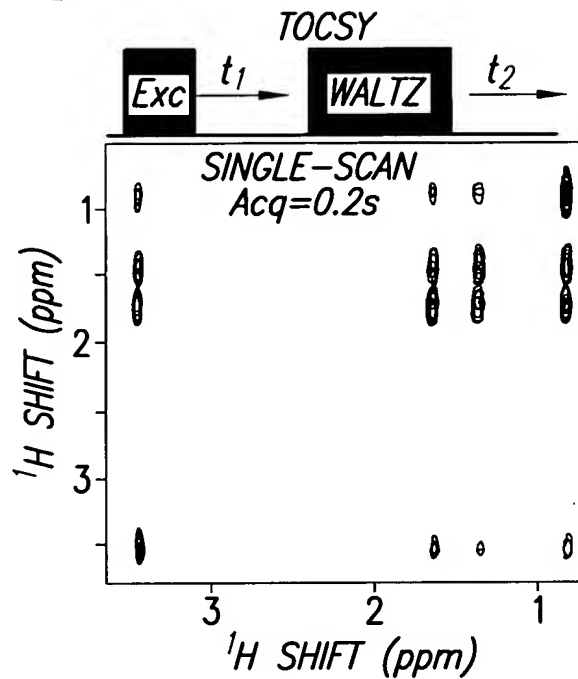


FIG.6B

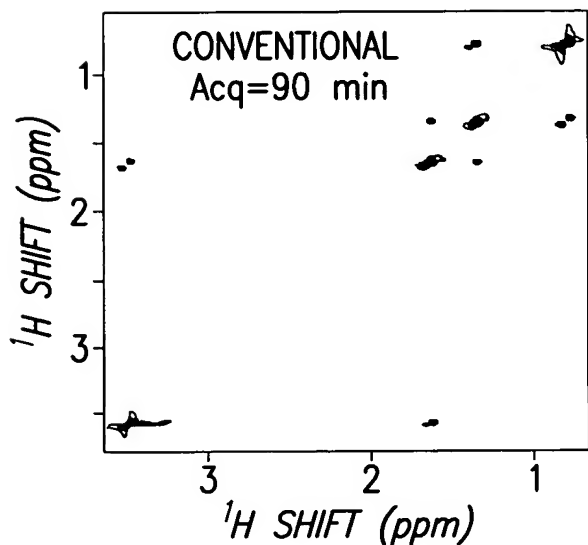


FIG.6C

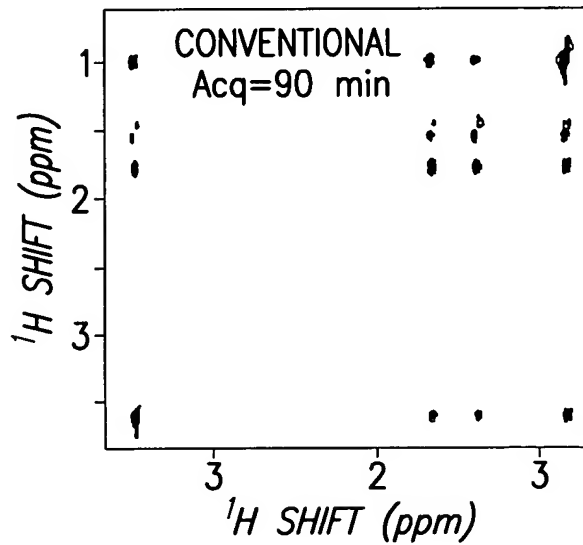


FIG.6D

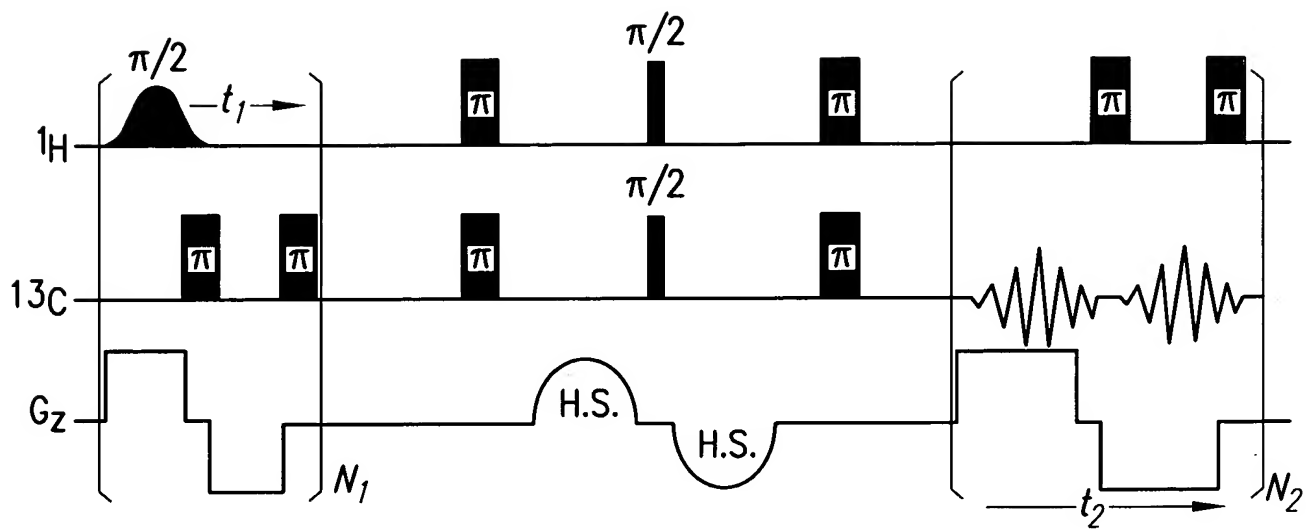


FIG.7A

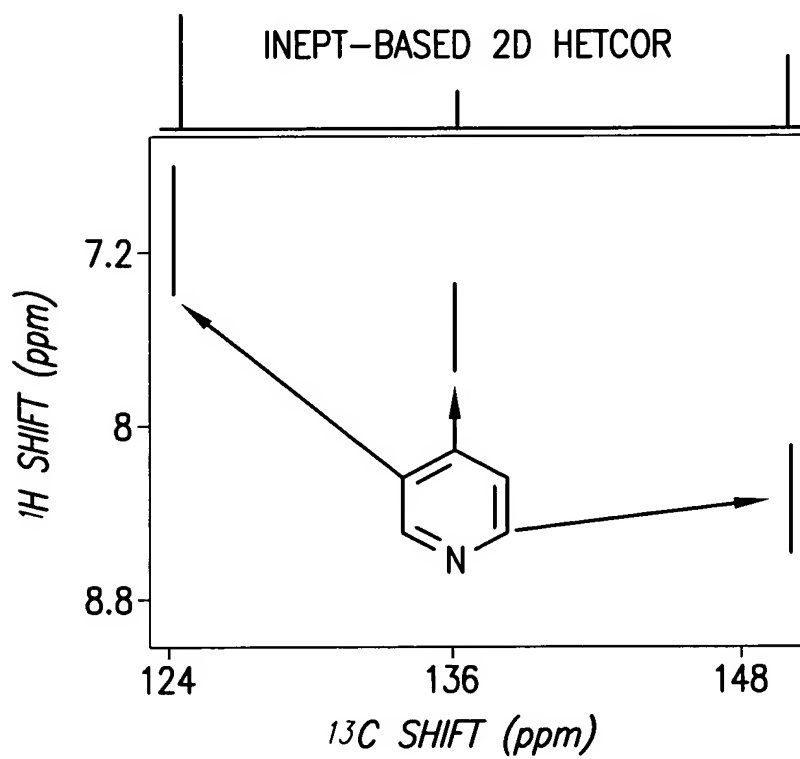


FIG.7B

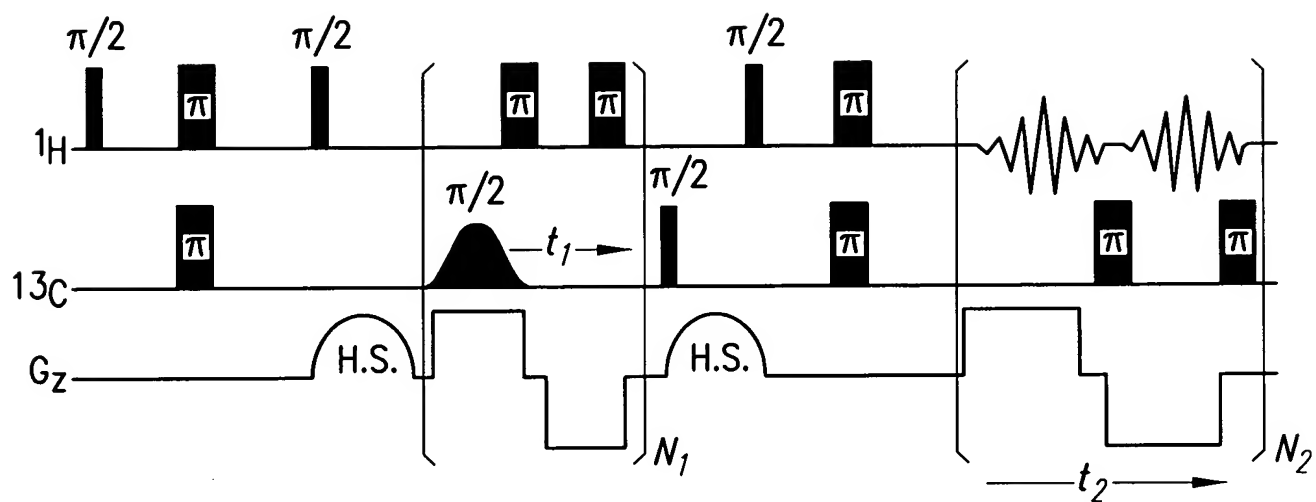


FIG.7C

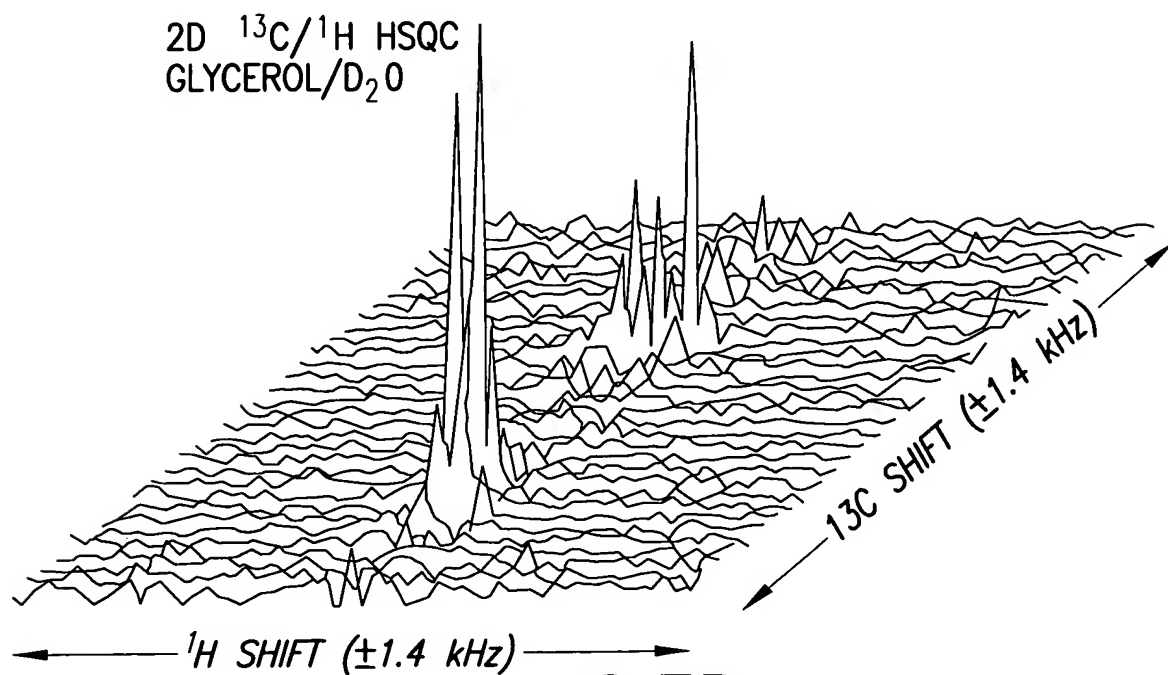


FIG.7D

2D CONSTANT-TIME EXPERIMENTS
(CH₃CH₂CH₂CO)₂O/CDC1₃

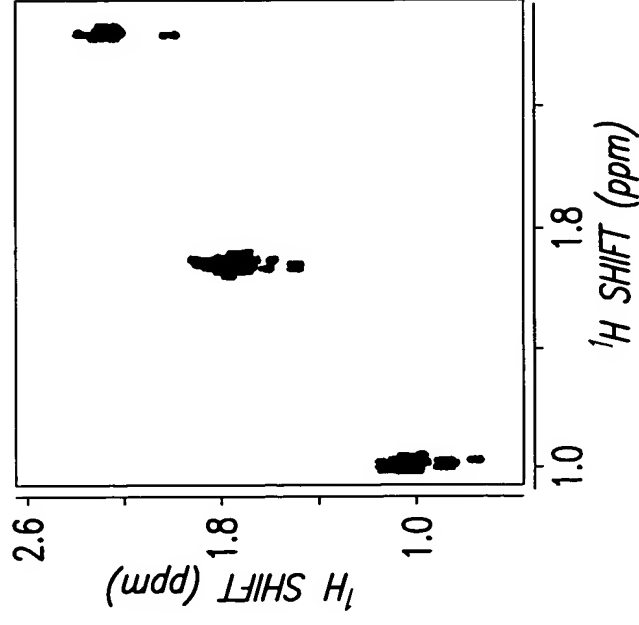
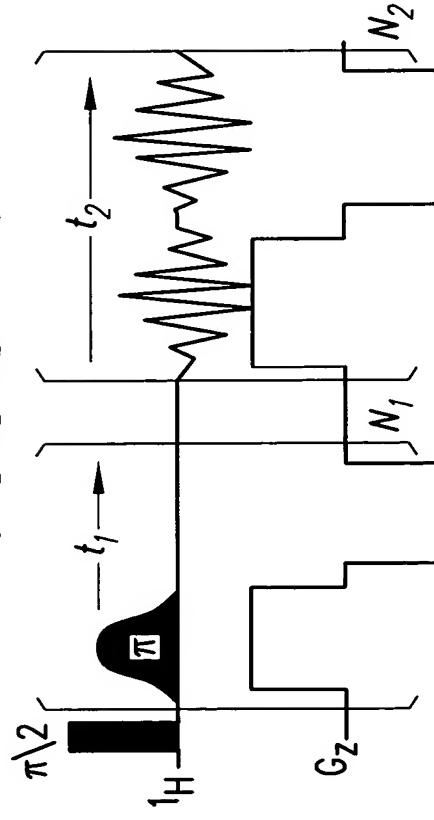


FIG.8A

2D CONSTANT-TIME EXPERIMENTS
(CH₃CH₂CH₂CO)₂O/CDC1₃

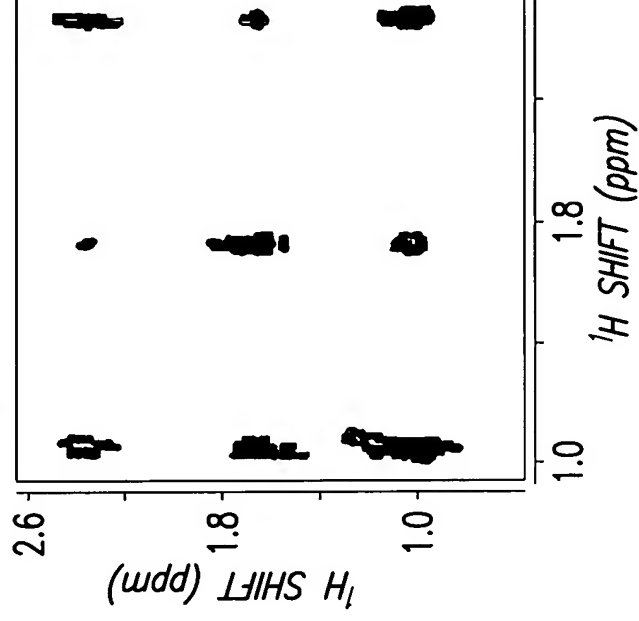
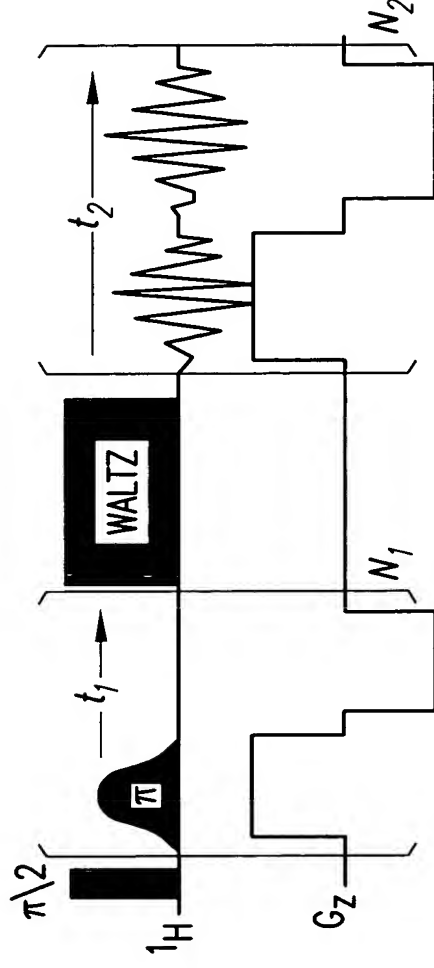


FIG.8B

SPATIAL ENCODING BASED ON DISCRETE EXCITATION PULSES

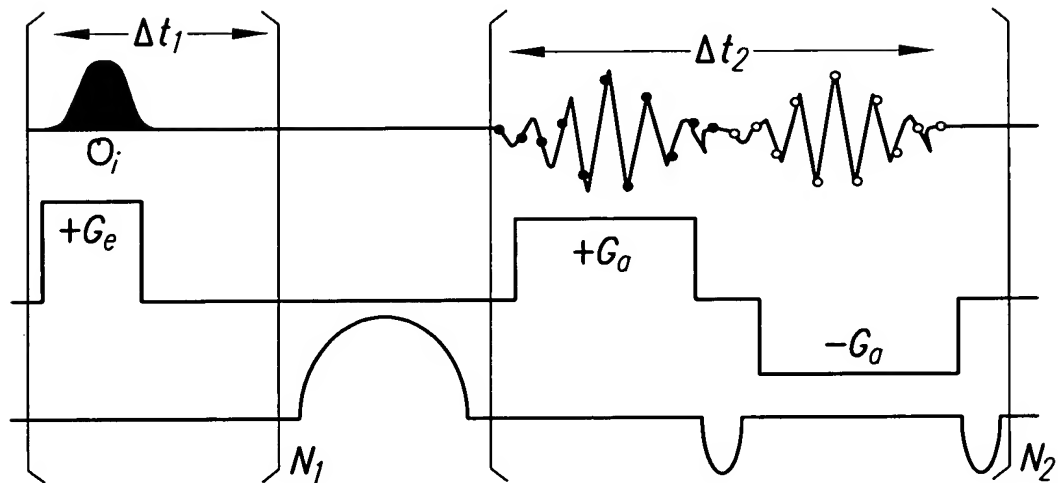


FIG.9A

SPATIAL ENCODING BASED ON A SINGLE CHIRP EXCITATION PULSE

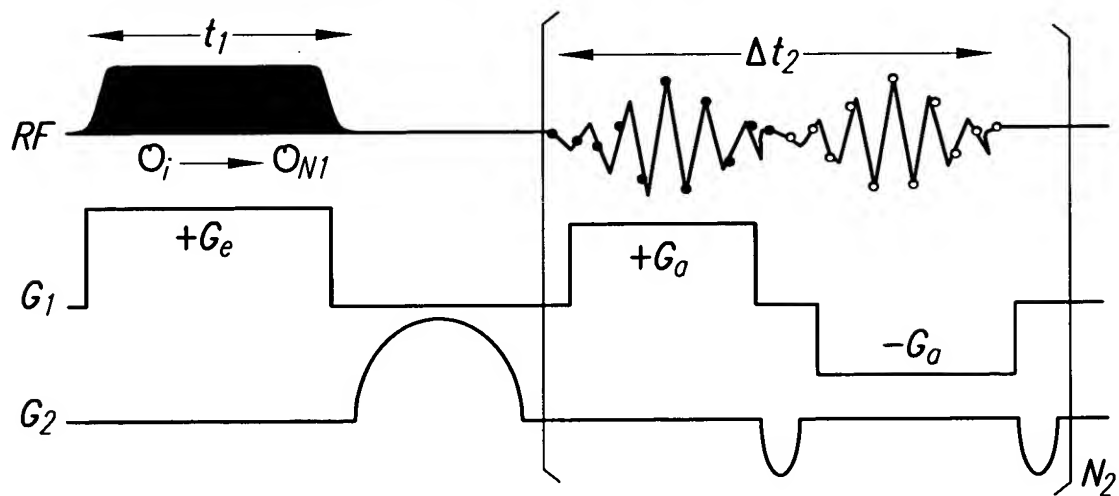


FIG.9B

SINGLE-SCAN
2D IMAGE

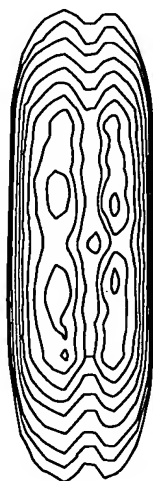


FIG.9C

SINGLE-SCAN
2D IMAGE

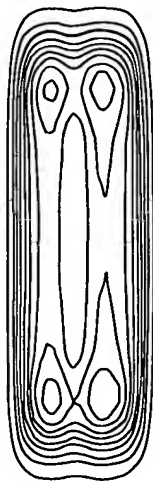


FIG.9D

H₂O PHANTOM
IMAGED

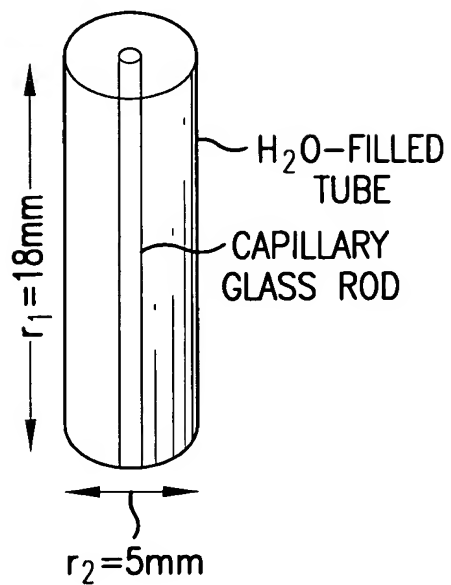


FIG.9E

SPATIALLY-LOCALIZED 2D NMR SPECTROSCOPY IN A SINGLE SCAN
TOTAL DATA ACQUISITION TIME: 106 ms

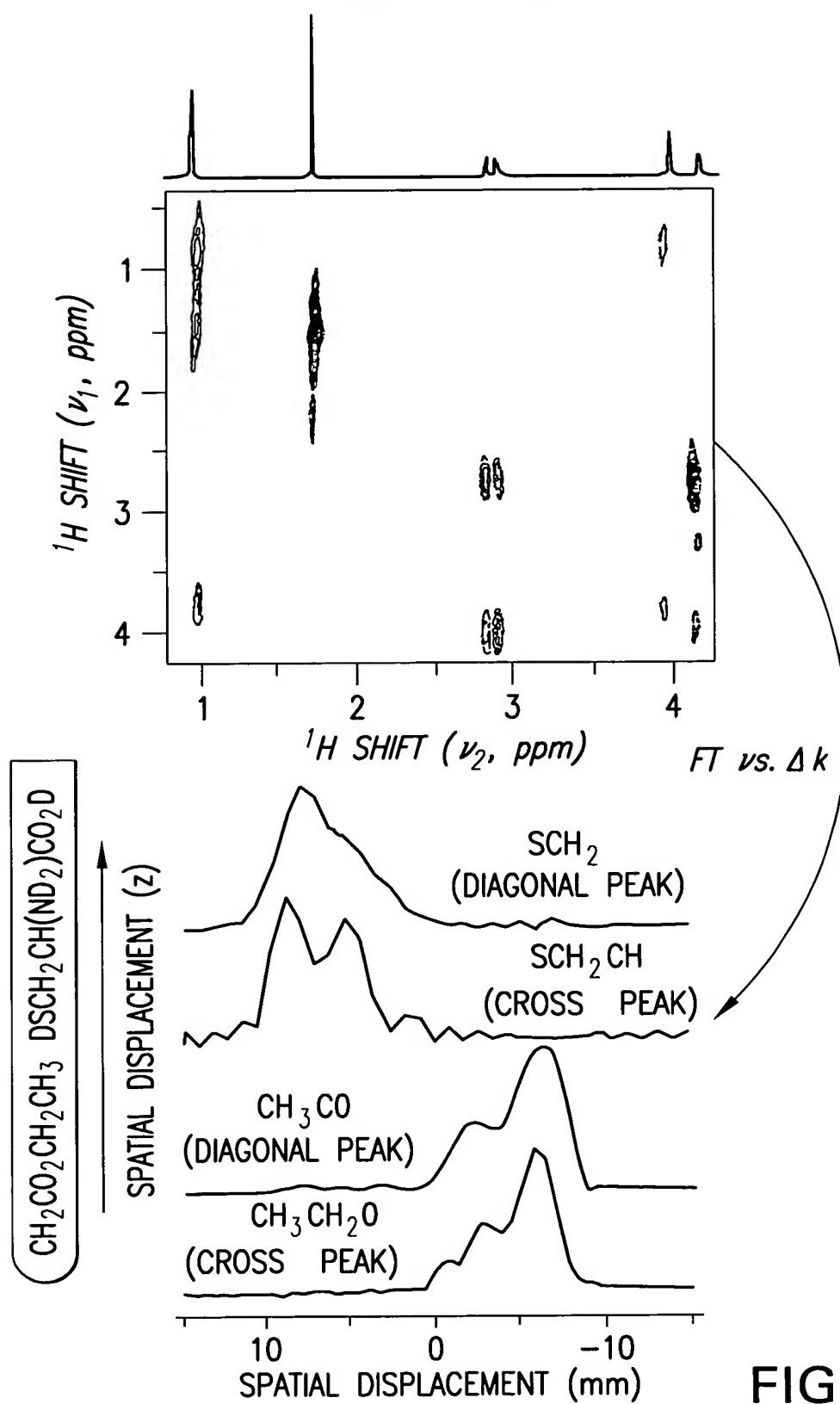


FIG.10

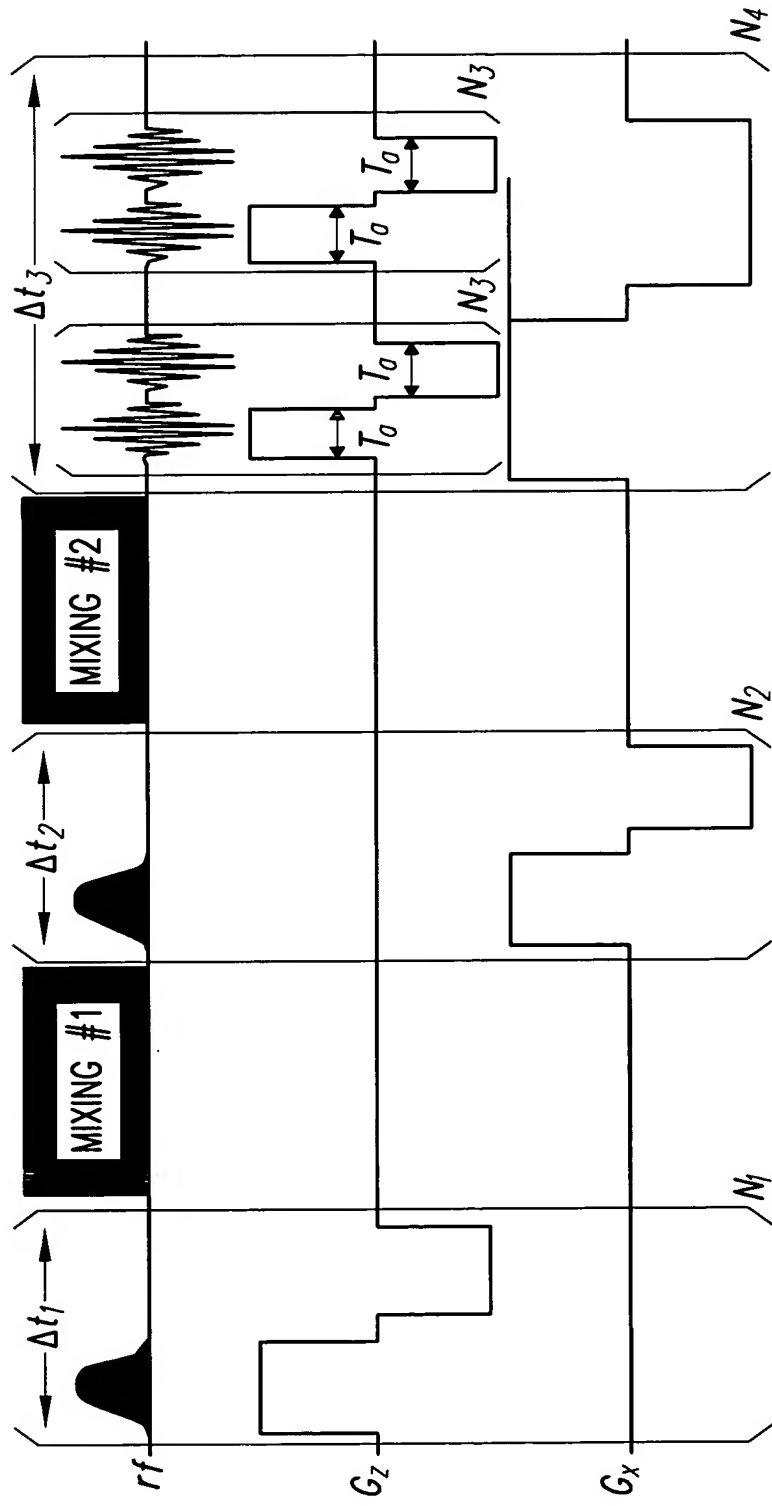


FIG.11

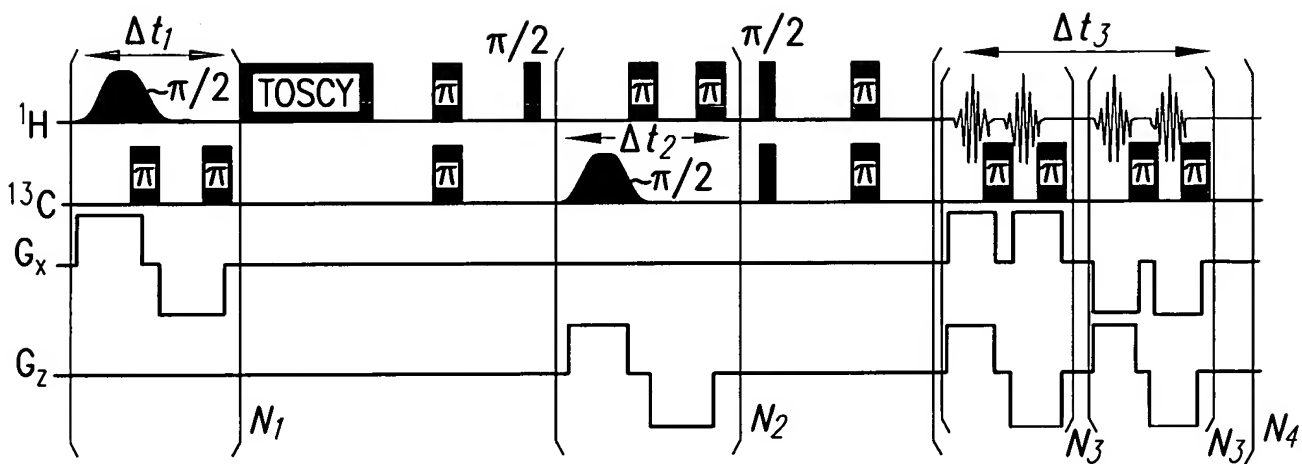


FIG.12A

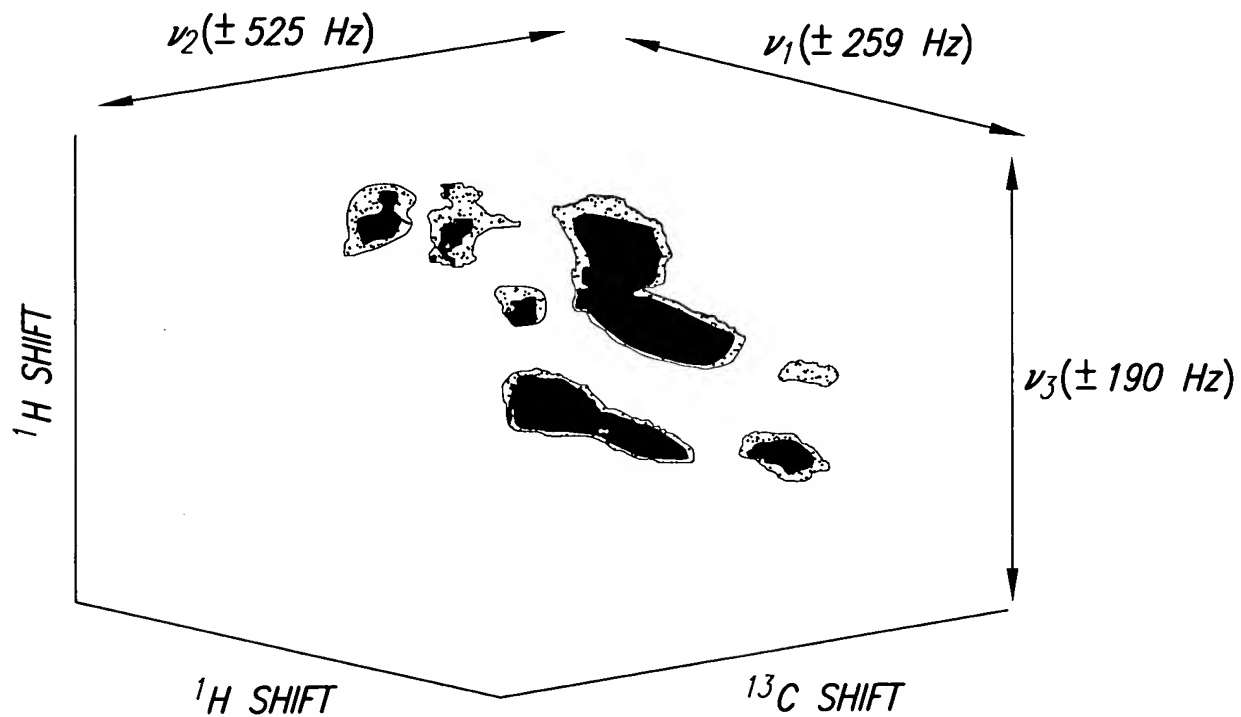


FIG.12B

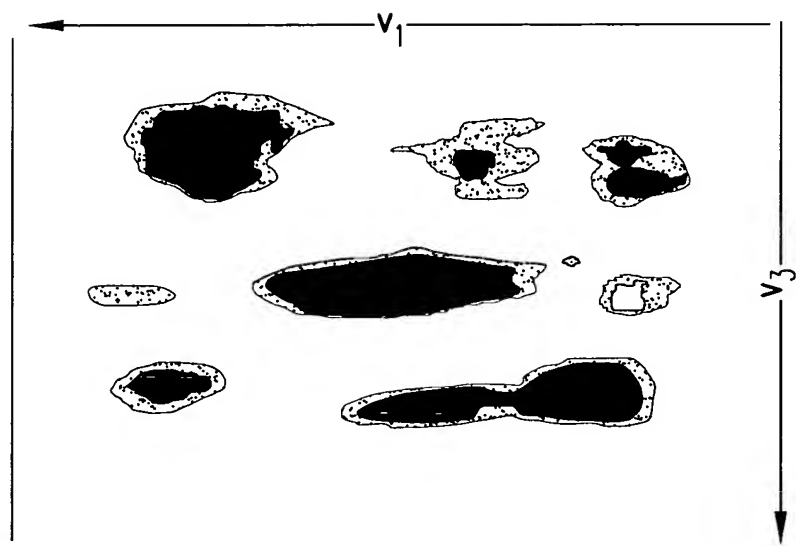


FIG. 12C

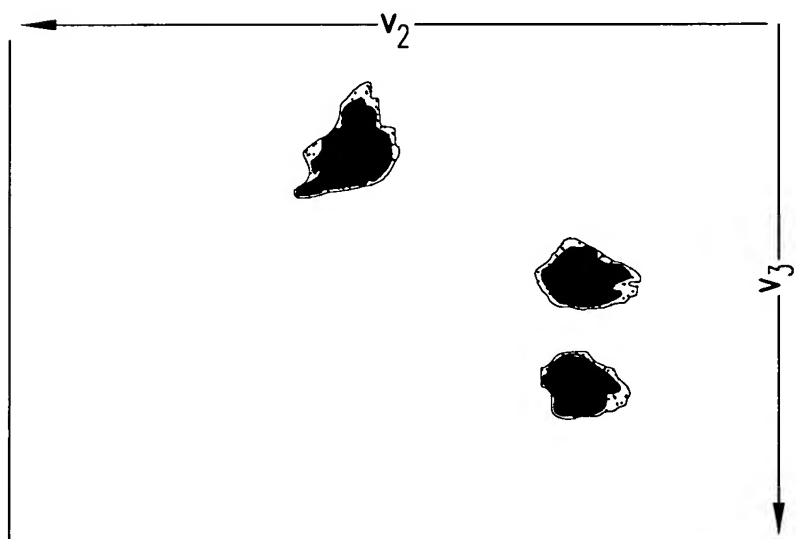


FIG. 12D

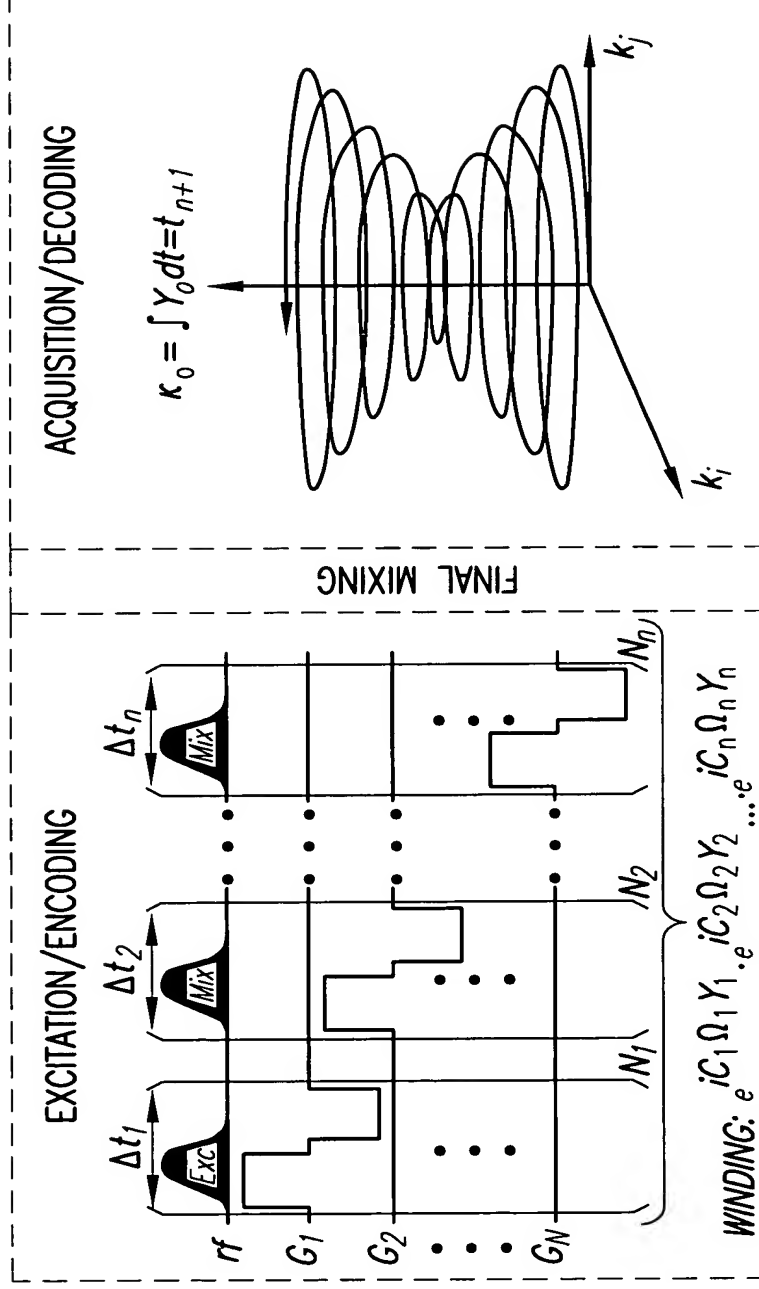


FIG.13A

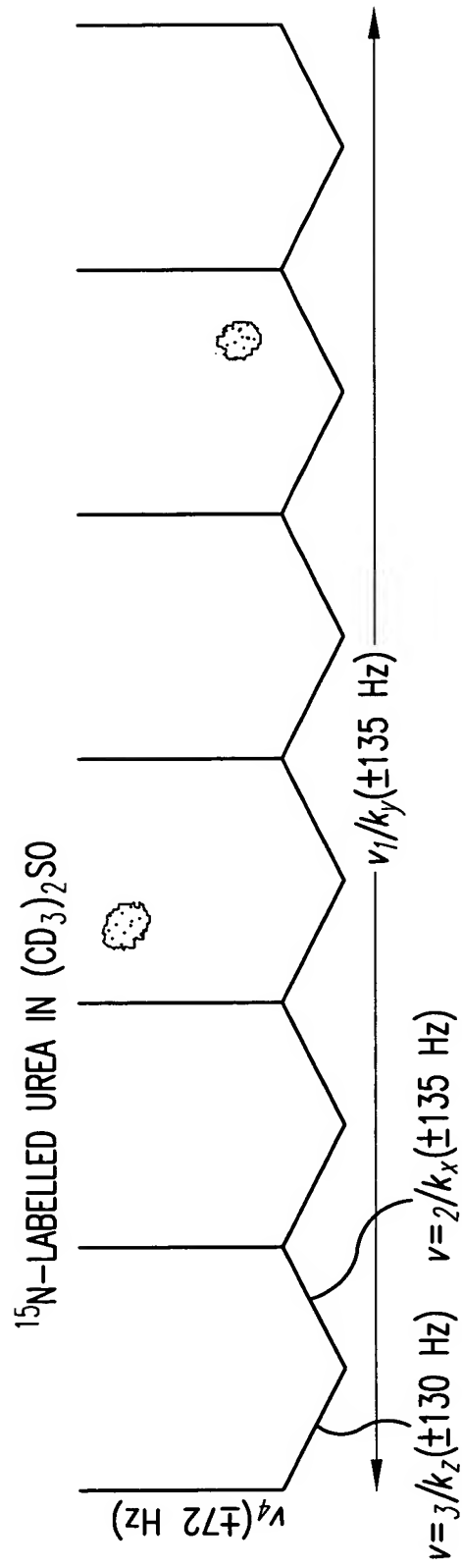


FIG. 13B

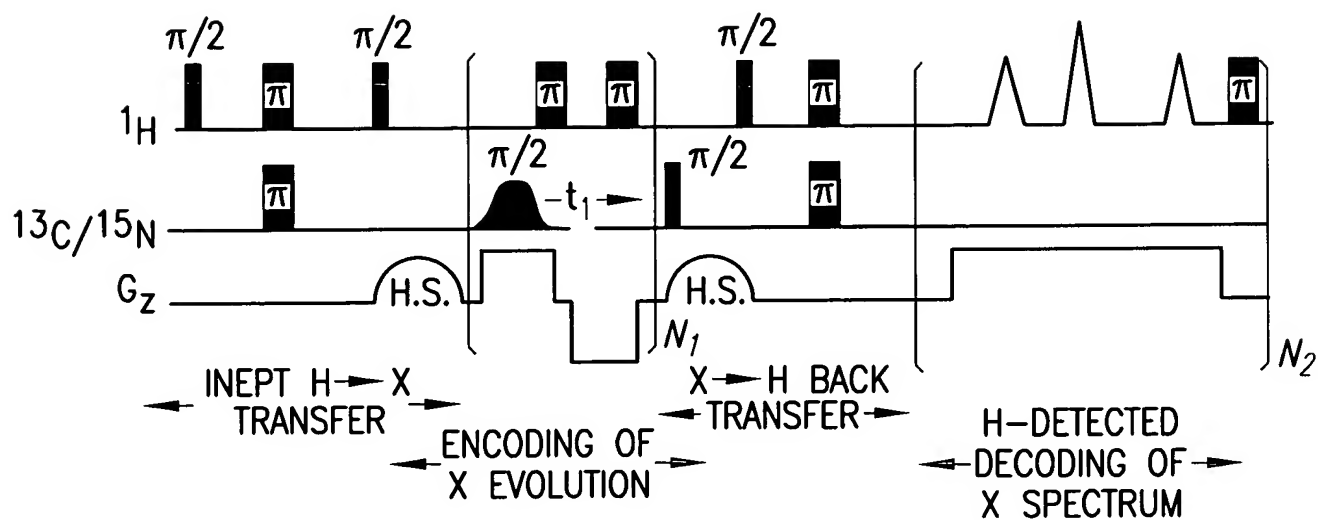


FIG.14A



FIG.14B

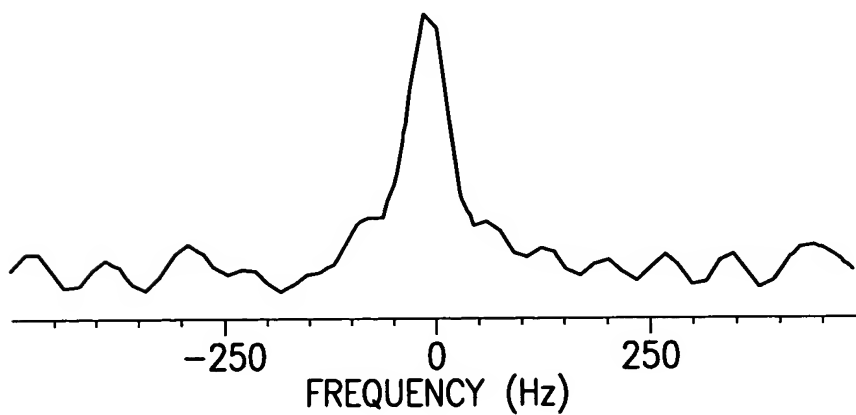


FIG.14C

(A) NORMAL EXCITATION WITH:
RF PHASE ϕ CONSTANT; NO INHOMOGENEITY

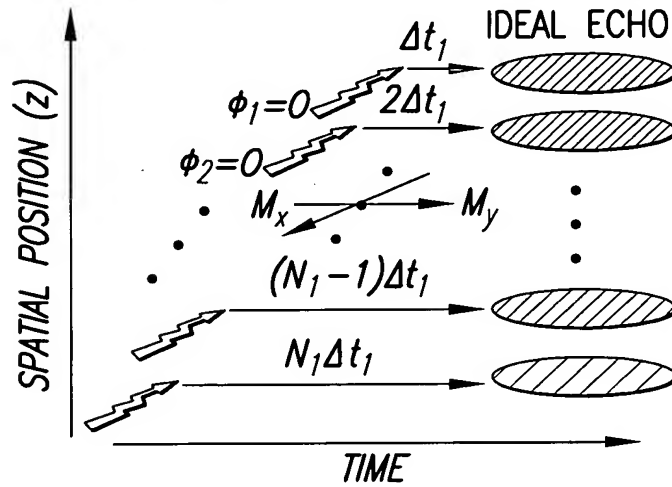


FIG.15A

(B) NORMAL EXCITATION WITH:
RF PHASE ϕ CONSTANT; INHOMOGENEITIES

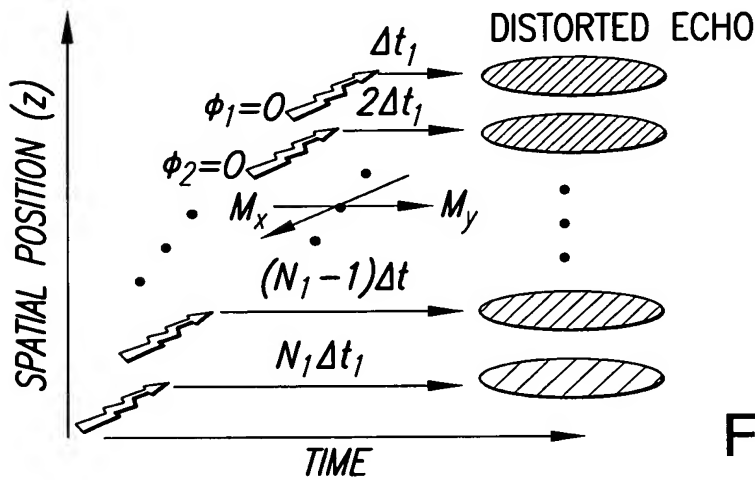


FIG.15B

(C) TAILORED EXCITATION WITH:
VARIABLE RF PHASES ϕ_i ; INHOMOGENEITIES

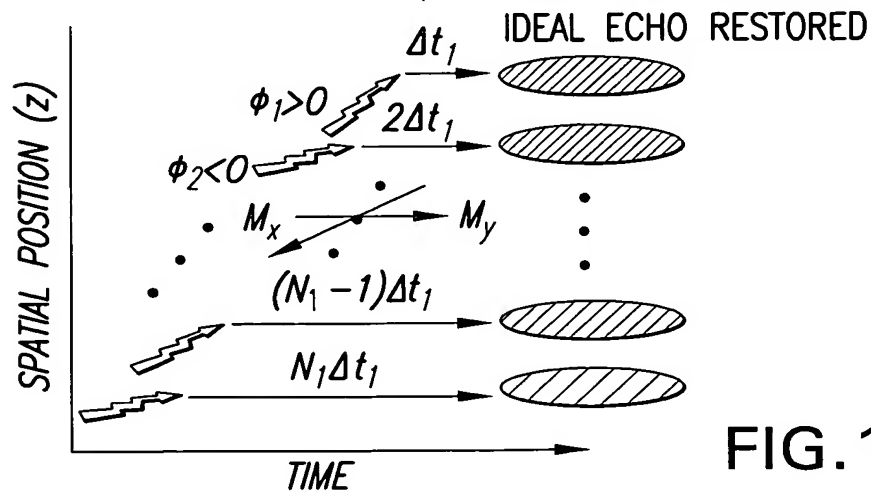


FIG.15C

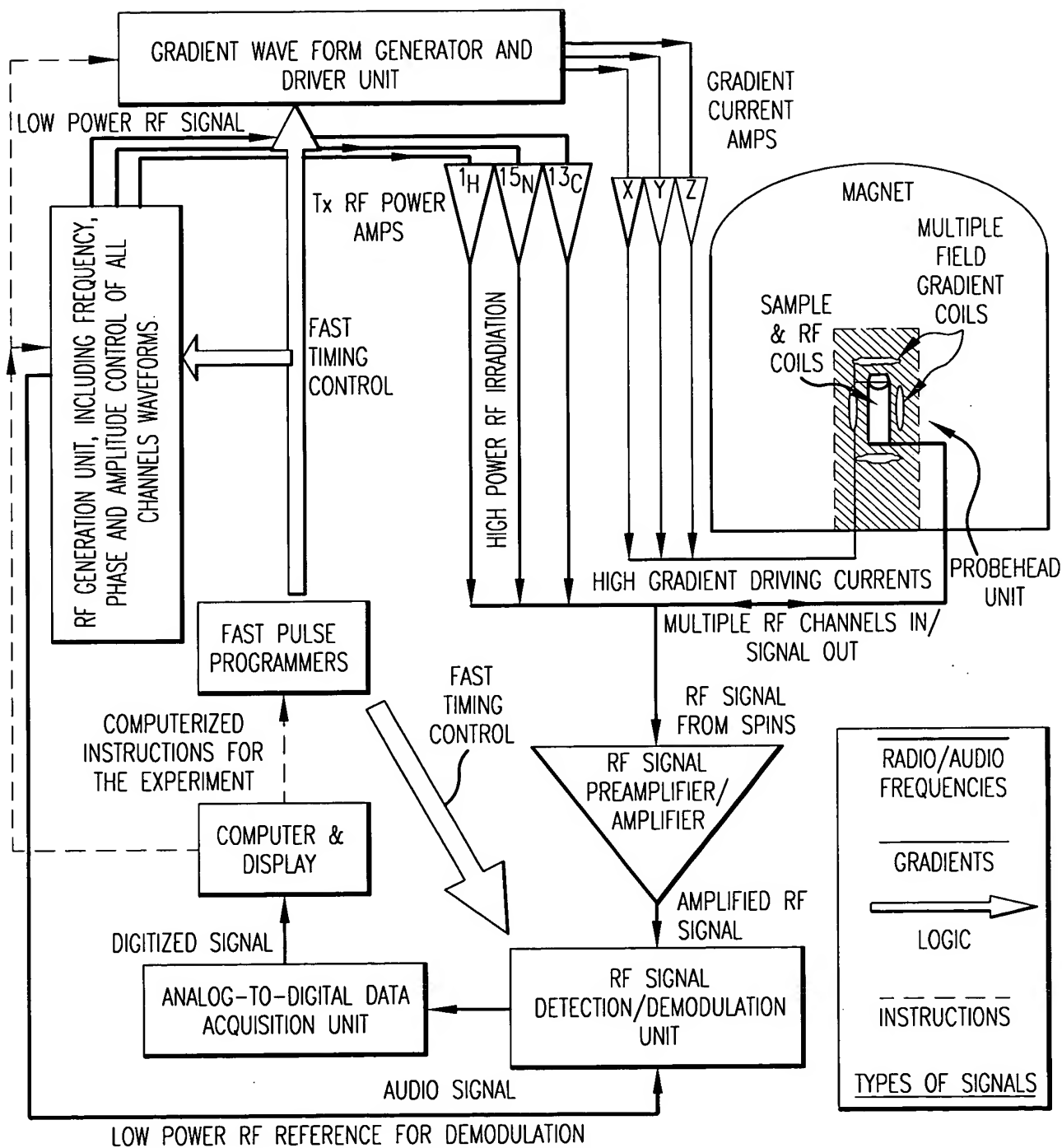


FIG.16

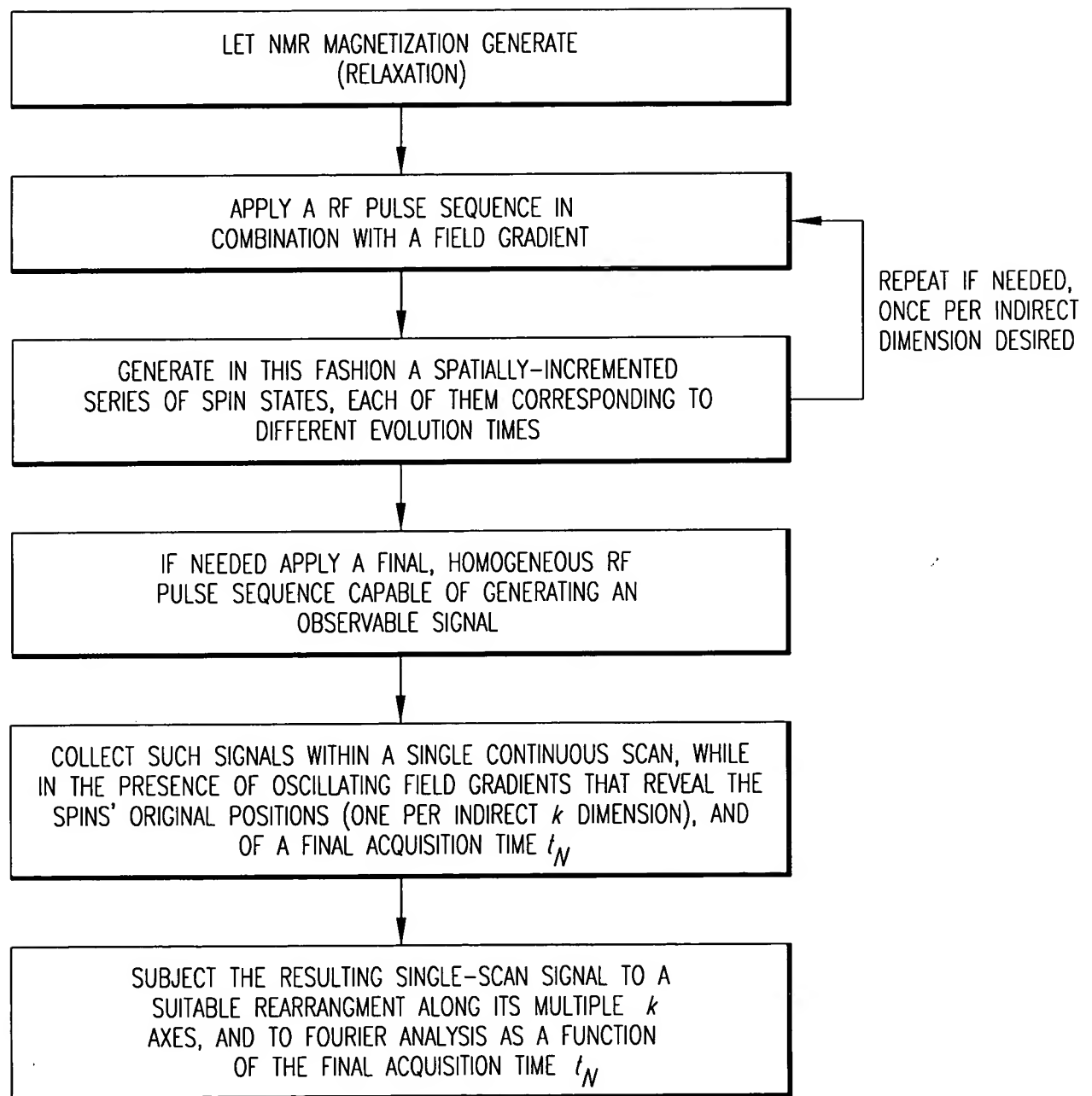


FIG.17